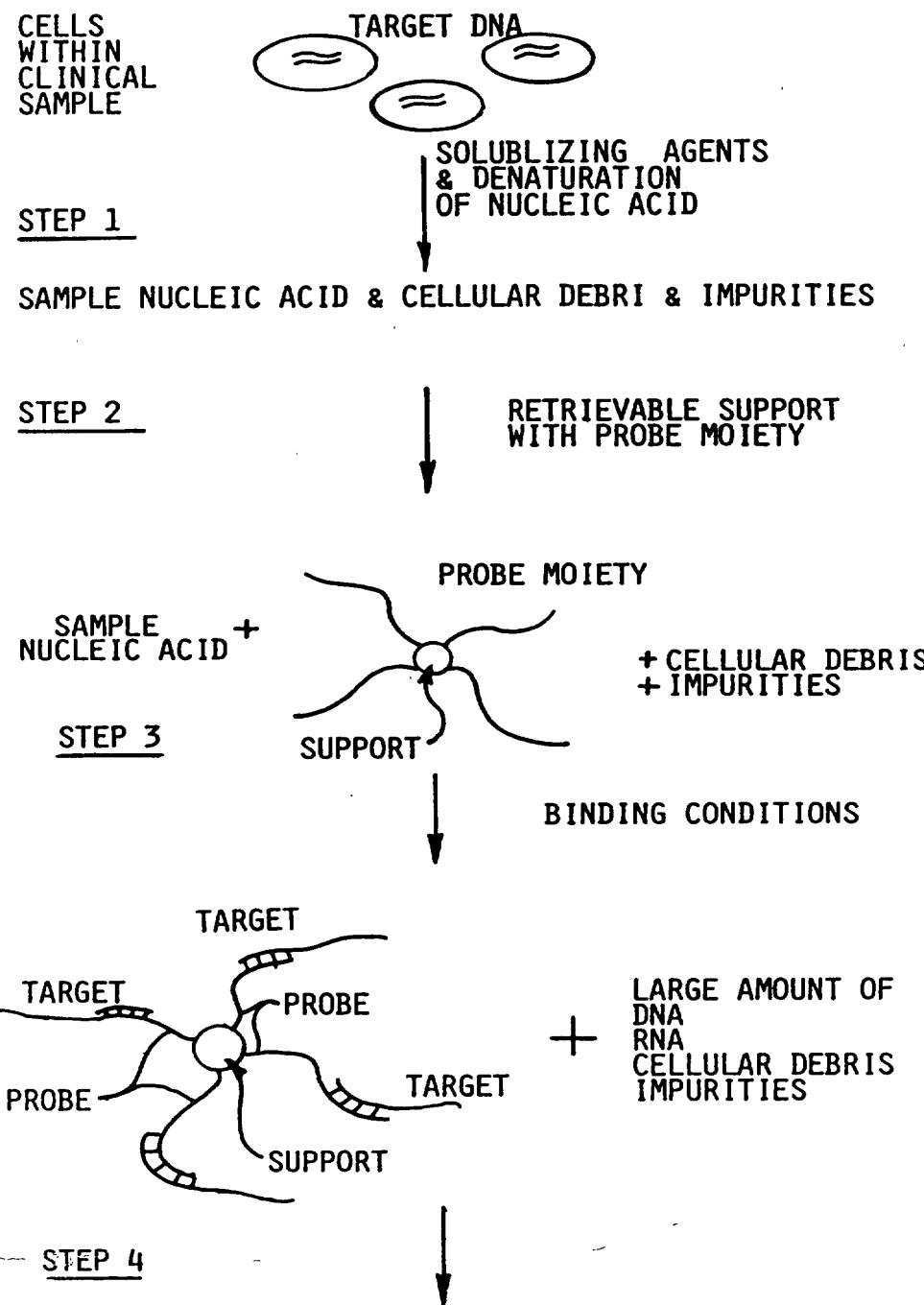


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|-----------|-----------|
| APPROVED | O.G. FIG. |
| BY T | CLASS |
| DRAFTSMAN | SUBCLASS |

5750338

FIG. 1a



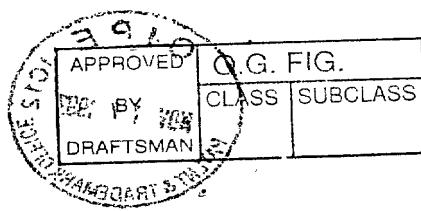
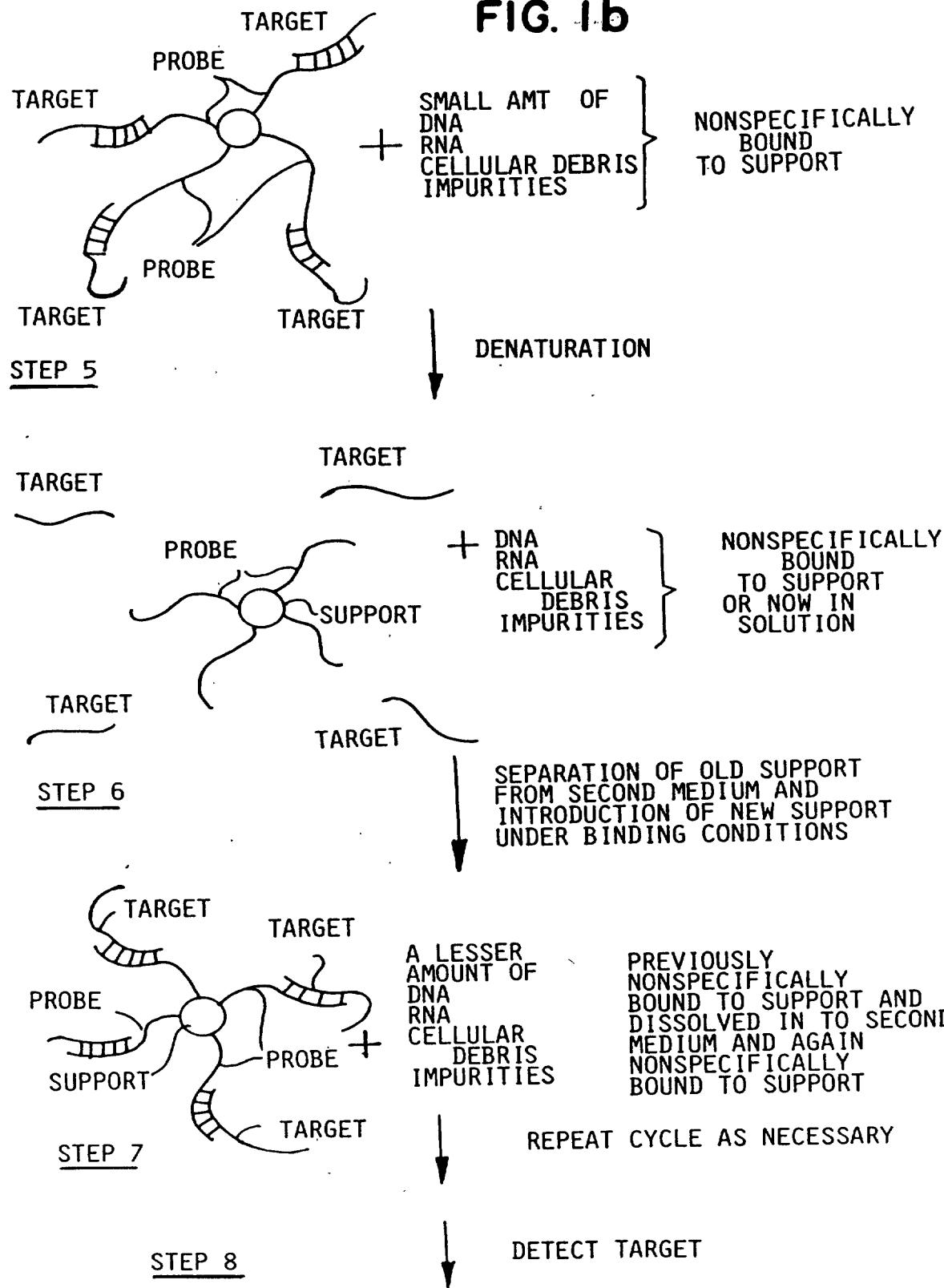


FIG. 1b



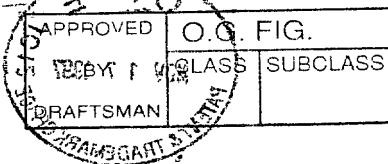
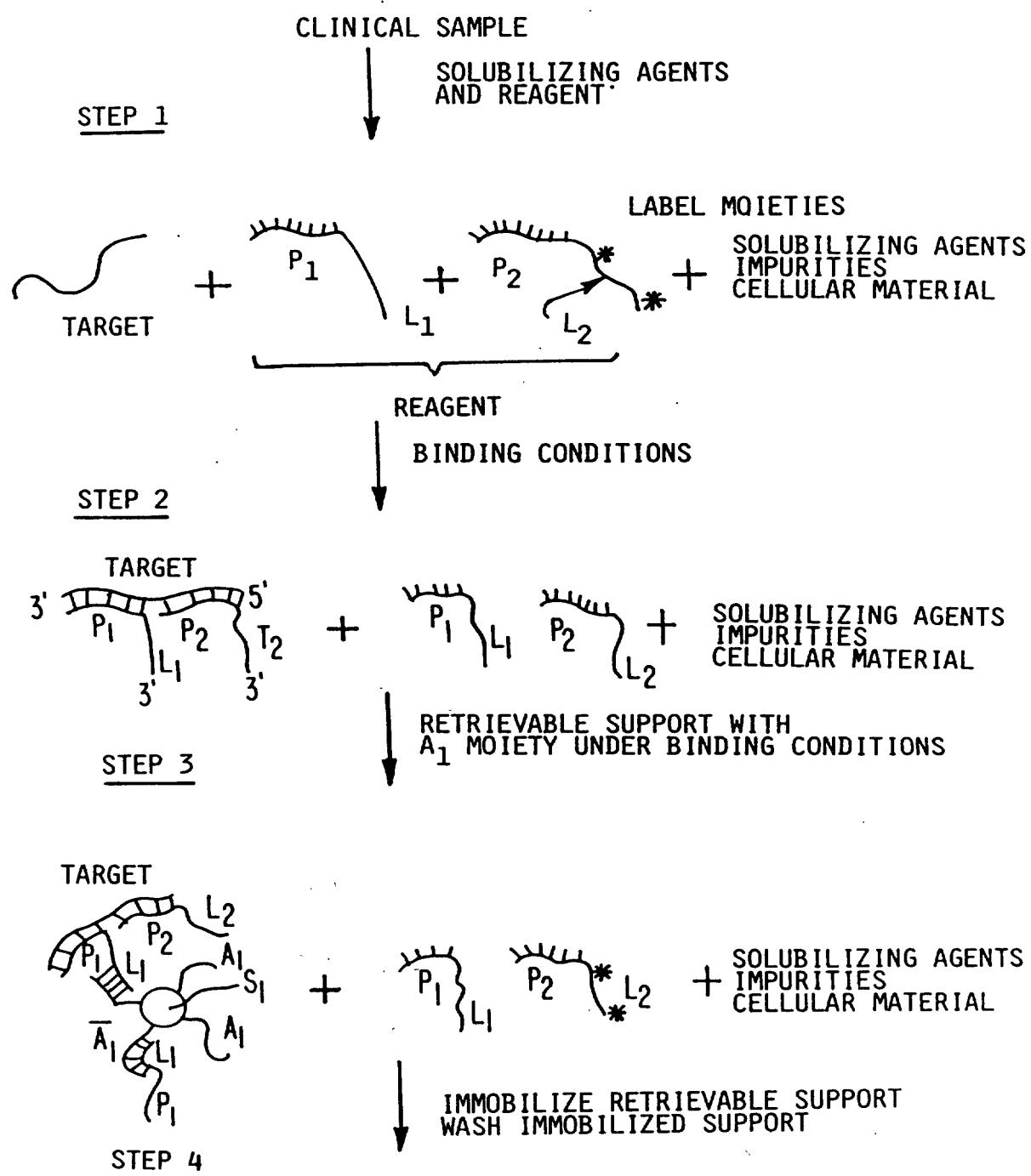


FIG. 2a



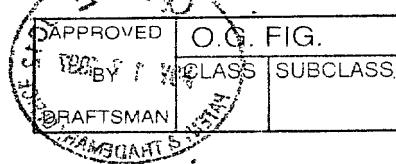
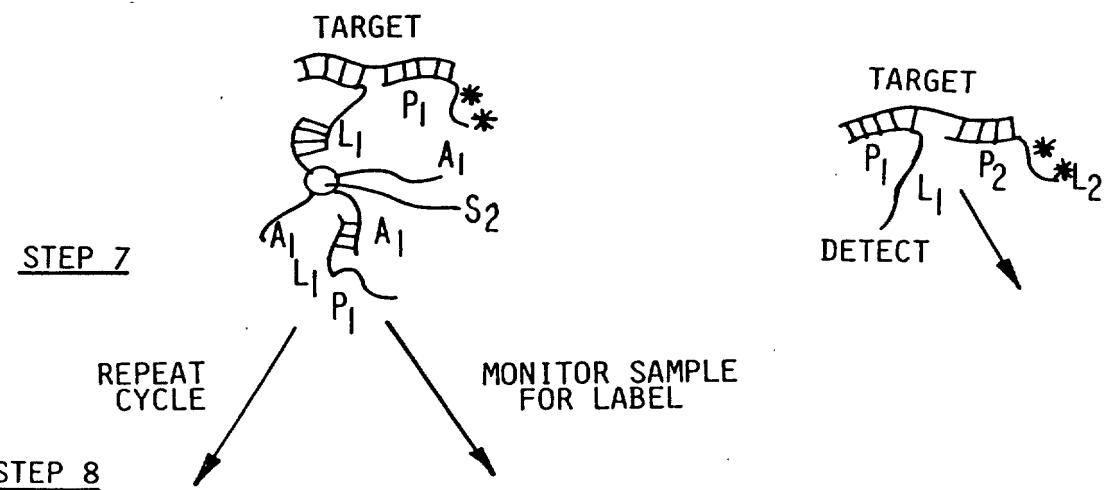
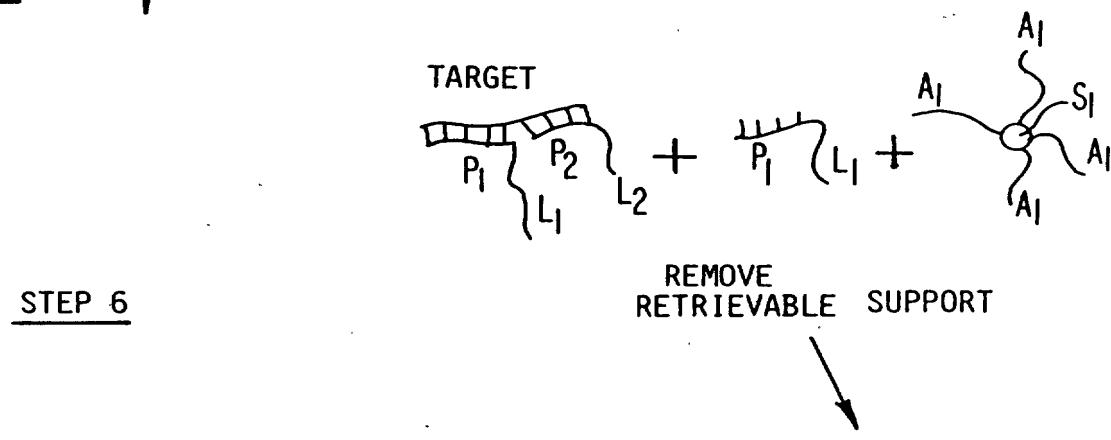
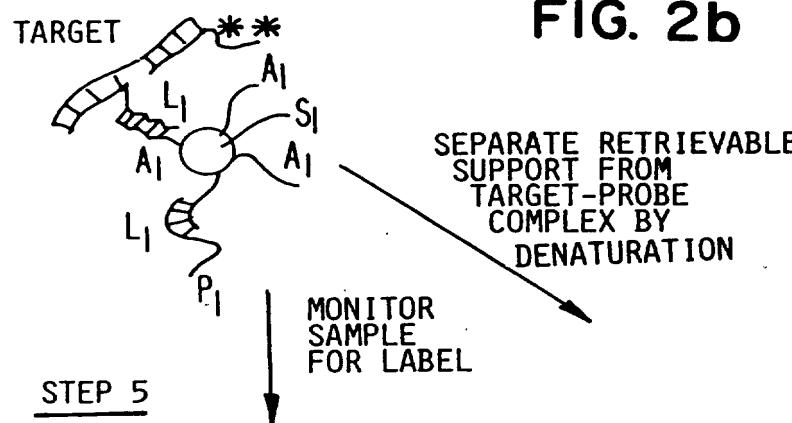


FIG. 2b



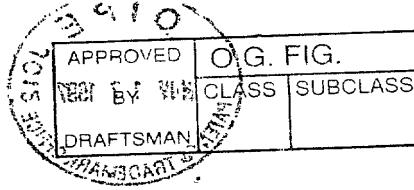
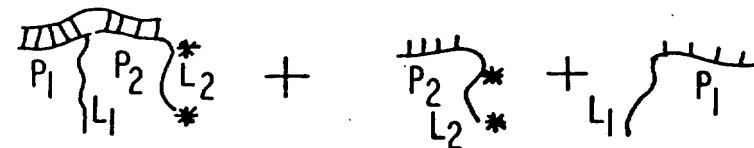


FIG. 3

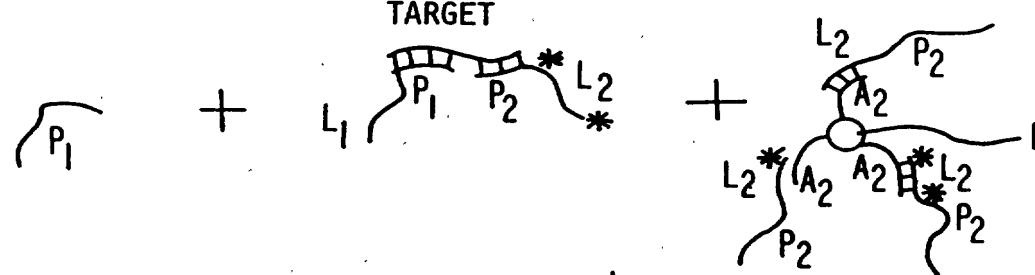
TARGET



STEP 1

SUPPORT SELECTIVELY BINDING
TO SECOND LIGAND OF P₂
UNDER BINDING CONDITIONS

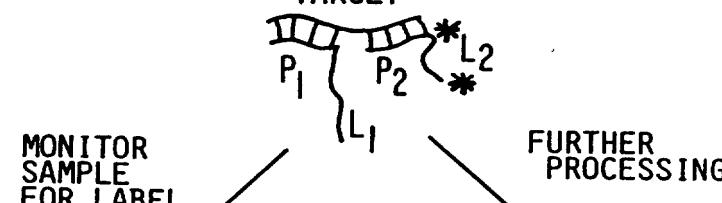
TARGET



STEP 2

REMOVE RETRIEVABLE
SUPPORT (B₁)

TARGET



MONITOR
SAMPLE
FOR LABEL

FURTHER
PROCESSING

STEP 3

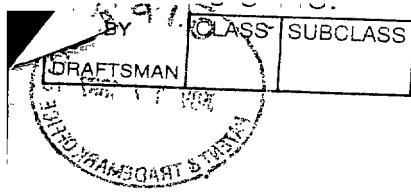
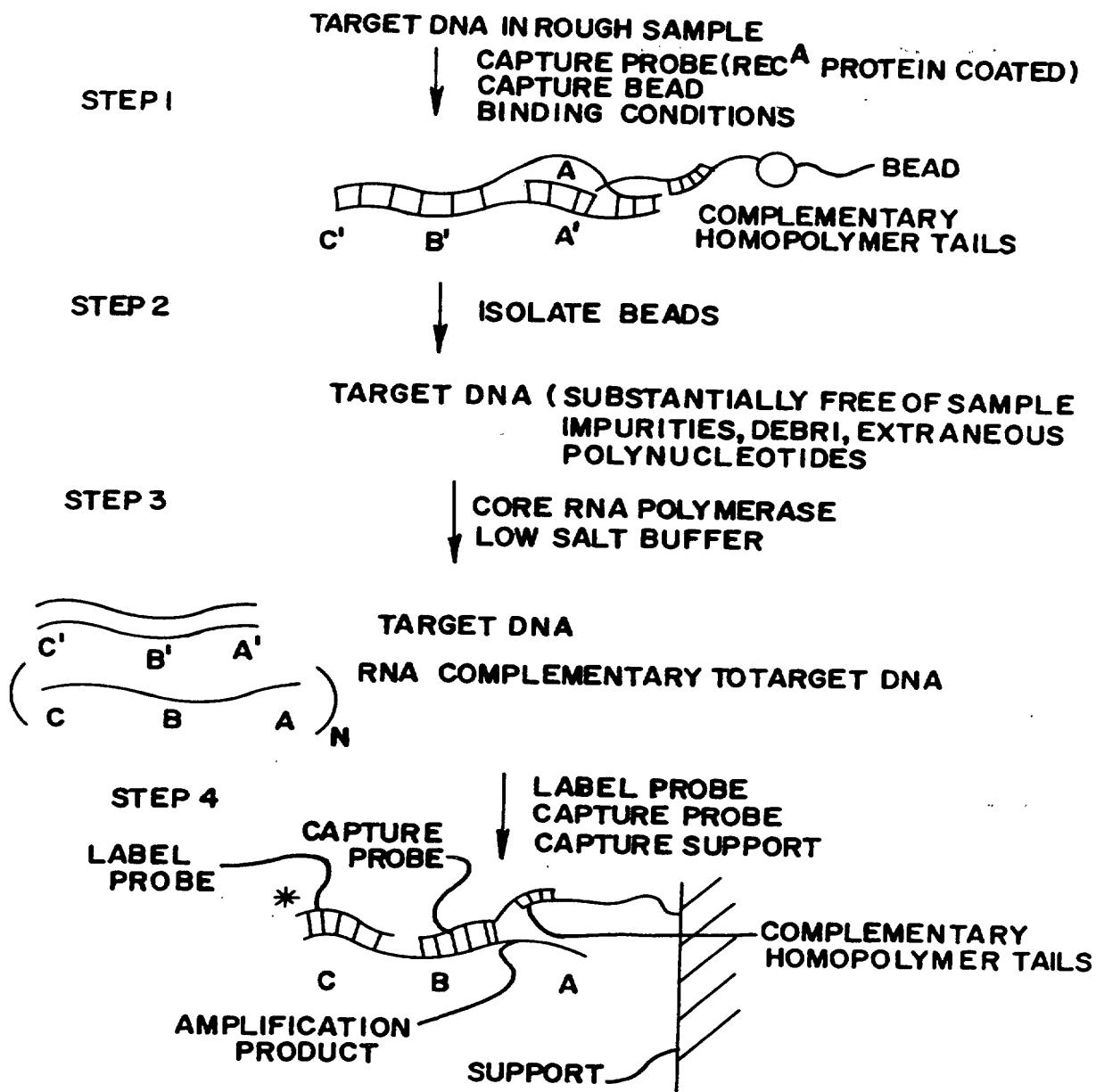


FIG. 4



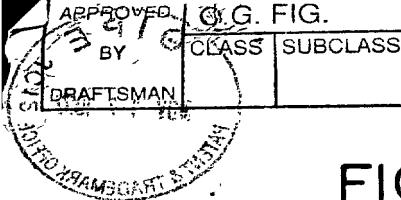
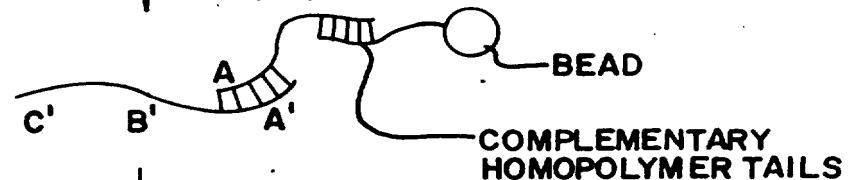


FIG. 5

TARGET DNA IN ROUGH SAMPLE
↓
CAPTURE PROBE
CAPTURE BEAD

STEP 1

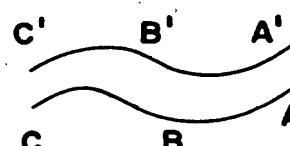


STEP 2

**TARGET DNA (SUBSTANTIALLY FREE OF
SAMPLE IMPURITIES, DEBRI,
EXTRANEous POLYNUCLEOTIDES)**

STEP 3a

DNA POLYMERASE HEXAMER PRIMERS



STEP 3E

CORE RNA POLYMERASE LOW SALT BUFFER



STEP 4

**LABELLED PROBE
CAPTURE PROBE
SUPPORT**

AMPLIFICATION TARGET

CAPTURE PROBE

SUPPORT

LABEL PROBE

C

1

PROBE

TARGET/AMPLIFICATION PRODUCT

CAPTURE — PROBE

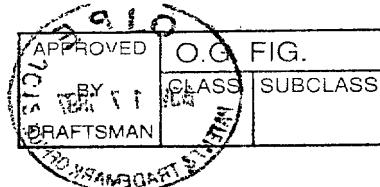
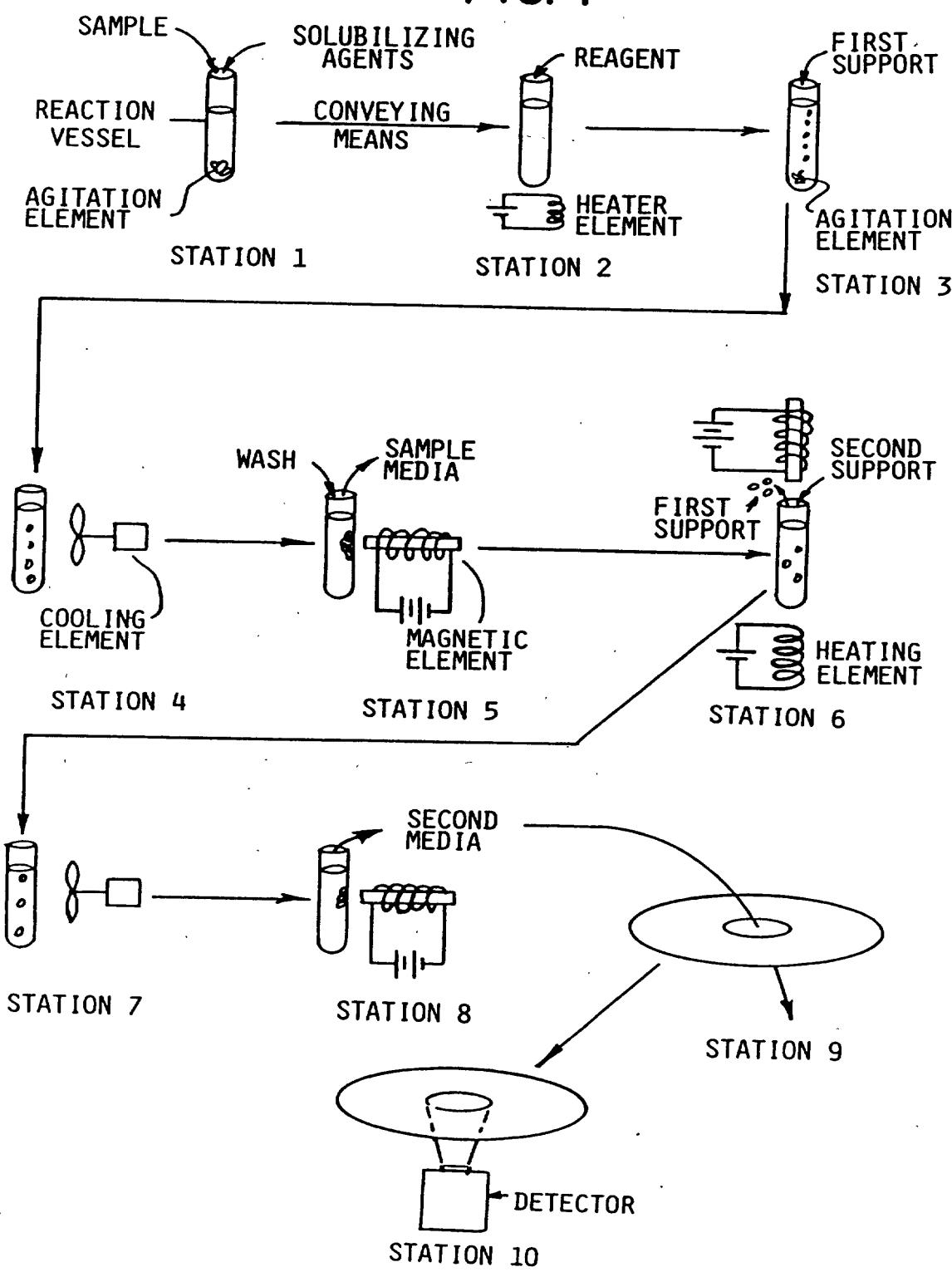


FIG. 7



032330000 - 0501249

| | | |
|----------------|-----------|----------|
| APPROVED BY | O.G. FIG. | |
| 3/20/82 | CLASS | SUBCLASS |
| DRAFTER | BY | |

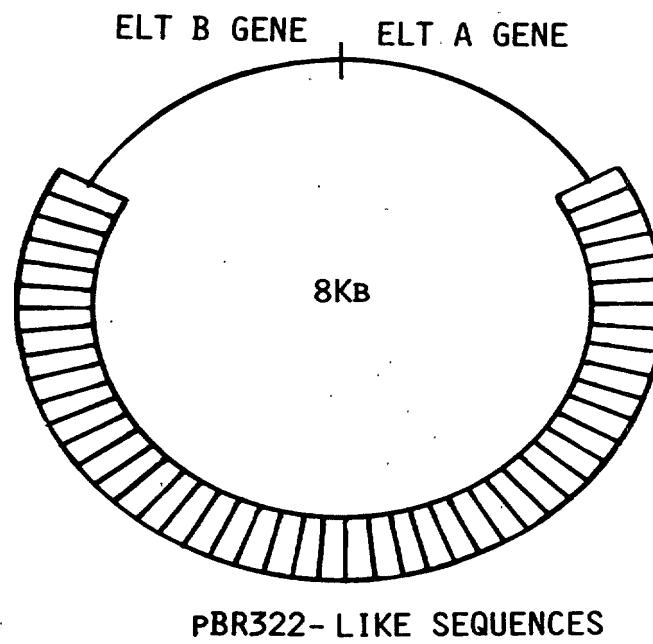


FIG. 8